

Data Sources: Indigenous Knowledge

Source: Author, Agency	File Name or title	Mackenzie Great Bear	Peel	Athabasca	Peace	Liard	Great Slave
AANDC	(2014). The Hay River: Water monitoring activities in the Hay River Region. Handout prepared for AANDC.						×
Andrews, T. et al.	(2012). Alpine Ice Patches and Shúhtagot'ine Land Use in the Mackenzie and Selwyn Mountains, Northwest Territories, Canada. Arctic 65(1).						x
Athabasca Watershed Council	(2018). State of the Athabasca Watershed: Summary Reprot.			×			+
Baptise and Island Lakes Stewardship Society	(2018). Baptiste and Island Lakes Watershed Management Plan.			×			
Bharadwaj, L. et al.	(2016). Accessibility, quantity and safety of Liard First Nation's drinking water supply. Research summary report.					х	
Burke, T.	(2019, September 26). Indigenous knowledge puts industrial pollution in perspective. Eos, 100. Retrieved from https://doi.org/10.1029/2019EO134291						х
Canadian Water Network	(2016). Slave Watershed Environmental Effects Program. Research Summary for 2013-2015.						х
Ermine, W. et al.	(2019). Isi Askiwan—The State of the Land: Prince Albert Grand Council Elders' Forum on Climate Change. Final research project report to the Prairie Adaptation Research Collaborative.						
Firelight Group	(2010). As Long as the Rivers Flow: Athabasca River Use, Knowledge and Change. MCFN Community Report.			х			
Fort Nelson First Nation	(2017). Liard Basin Monitoring Initiative Year 1 State of Knowledge Report. Community Summary.					х	
Gill, H.	(2013). Environmental changes in the lower Peel River watershed, Northwest Territores, Canada: Scientific and Gwich'in perspectives. Master's Thesis.		х				
Gill, H. & Lantz, T.	(2014). "A Community-Based Approach To Mapping Gwich'in Observations Of Environmental Changes In The Lower Peel River Watershed, NT," Journal Of Ethnobiology 34(3) 294-314		х				
Golder Associates	(2015). Central Mackenzie Surface Water and Groundwater Baseline Assessment. Report 1: Technical State of Knowledge. Report prepared for the Government of Northwest Territories.	х					
Gwich'in Renewable Resources Board	(2010). Gwich'in Traditional Knowledge: Rat River Dolly Varden Char. Report prepared for the Gwich'in Renewable Resources Board.		Х				
Gyot, M. et al.	(2006). Local observations of climate change and impacts on traditional food security in two northern communities. International Journal of Circumpolar Health 65(5): 403-415.						х
Hatfield Consultants	Indicators of Aquatic Ecosystem Integrity for the Mackenzie River Basin - Workshop Summary	x	х	x	х	х	х
Heredia Vazquez, I.	(2019). Implications of Socio-Ecological Changes for Inuvialuit Fishing Livelihoods and the Country Food System: The Role of Local and Traditional Knowledge. PhD Dissertation.	х	х				
Liard, B.	(2015). "Contaminant bioponitoring in the Dehcho Region: A pilot investigation of the links between contaminant exposure, nutritional status, and country food use." In AANDC. Synopsis of Research: 2014-2015 Northern Contaminants Program. Pp. 95-100.	х					
Loo, T.	(2007). Disturbing the peace: Environmental change and the scales of justice on a northern river. Environmental History, 12				х		
Mantyka-Pringle, C. et al.	(2017). Bridging science and traditional knowledge to assess cumulative impacts of stressors on ecosystem health. Environment International 102: 125-137.						х
MRBB	(2012). The Mackenzie River Basin Board's 2012 Issues Report: Oil sands development, hydroelectric development, and climate change in the Mackenzie River Basin.			х			
MRBB Traditional Knowledge and Strengthening Partnerships Steering Committee	Traditional and Local Knowledge in the 2017 Mackenzie River Basin 'State of the Aquatic Ecosystem Reprt': Recommendationts Report	х	х	х	х	х	х
Papik, R. et al. 2002	Inuvialuit Traditional Ecological Knowledge of Fisheries in Rivers West of the Mackenzie River in the Canadian Arctic		Х				
Parlee, B. & D'Souza, A.	(2016). Literature Review: Local and Traditional Knowledge in the Athabasca River Watershed.			х			
Parlee, B. & Maloney, E.	(2017). Tracking Change: Local and Traditional Knowledge in Watershed Governance. Report of the 2016 Community Based Research Projects in the Mackenzie River Basin. University of Alberta: Edmonton, Alberta.	х	х	х	х	х	х
Parlee, B. et al.	(2020). Tracking Change: Local and Traditional Knowledge in Watershed Governance. Report of the 2017-2018 Community Based Research Projects in the Mackenzie River Basin. University of Alberta: Edmonton, Alberta.	x	х	х	х	х	х
Parlee, B., Geertsema, K., & Willier, A.	(2012). Social-Ecological Thresholds in a Changing Boreal Landscape: Insights from Cree Knowledge of Lesser Slave Lake Region of Alberta, Canada. Ecology and Society 17(2): 20.				х		
Peace River Flow Regime Working Group	Peace River Flow Regime: Report to the MPWA IWMP Steering Committee				Х		
Pembina Institute	(2016). State of the Knowledge of the Slave River and Slave River Delta: A Component of the Vulnerability Assessment of the Slave River and Delta. Report prepared for the Slave River and Delta Partnership.						х
Sturgess, K.	(2018). A roadmap for sustainable water management in the Athabasca River basin. Report prepared for Alberta Innovates.			х			
Tengo, M. et al.	(2017). Weaving knowledge systems in IPBES, CBD and beyond-lessons learned for sustainability. Current Opinion in Environmental Sustainability 26: 17-25.						
Thompson, A. and Millar, N.	(2007). Traditional knowledge of fish migration and spawning patterns in Tsiigehnjik (Arctic Red River) and Nagwichoonjik (Mackenzie River), Northwest Territories. Gwich'in Renewable Resources Board Report 07-01						х
Wesche, S. et al.	(2016). Land-based programs in the Northwest Territories: Building Indigenous food security and well-being from the ground up. Canadian Food Studies 3(2): 23-48.						х
Woo, M-K. et al.	(2007). Science Meets Traditional Knowledge: Water and Climate in the Sahtu (Great Bear Lake) Region, Northwest Territories, Canada. 60(1): 37-46.	х					
Yantz, J.	(2005). Indigenous Knowledge of the Land and Protected Areas: Fond du Lac Denesuline Nation and the Athabasca Sand Dunes, Saskatchewan. MA Thesis.			х			







		Mackenzie	1	1	I	I	Great	
Source: Author, Agency	Report title, data type, indicators	Great Bear	Peel	Athabasca	Peace	Liard	Slave	Link
AANDC	Water Monitoring Activities in the Hay River Region (2014)						х	on file
								https://www.aadnc-aandc.gc.ca/DAM/DAM-INTER-NWT/STAGING/texte-
AANDC	Water and Suspended Sediment Quality in the Transboundary Reach of the Slave River (2012)						Х	text/slaveRiverReport2012_1367957032853_eng.pdf
Aboriginal Affairs and Northern Development Canada 2016	Synopsis of Research Conducted under the 2014-2015 Northern Contaminants Program	х					х	on file
Alberta Athabasca Rainbow Trout Recovery Team 2014.	Alberta Athabasca Rainbow trout recovery plan, 2014-2019. Alberta Environment and Sustainable Resource Development, Alberta Species at Risk Recovery Plan No. 36. Edmonton, AB. 111 pp.			x				https://open.alberta.ca/publications/9781460118498
Alberta Biodiversity Monitoring Institute (ABMI)	Human Footprint Inventory. A comprehensive digital representation of anthropogenic disturbances (e.g., agriculture, forestry, energy) on the Alberta land-base.			х	х	х	х	https://www.abmi.ca/home/data-analytics/da-top/da-product-overview/Human-Footprint- Products/HF-inventory.html
Alberta Environment and Parks	Water Quality Data for rivers (LTRN) and lakes			Х	х			https://www.alberta.ca/surface-water-quality-data.aspx
Alberta Environment and Parks	Longitudinal Water Quality Patterns in the Athabasca River: Winter Synoptic Survey (2015)			х				https://open.alberta.ca/dataset/19ac6f82-fb2e-4f8d-b878- 50a81a768cd1/resource/ae70d679-9007-462b-a4d4-a7a58124a195/download/tondu- 2017-atha-synotpic-final.pdf http://www.environment.alberta.ca/apps/OSEM/
Alberta Environment and Parks	Athabasca River Conditions and Use			×				and https://open.alberta.ca/publications/9781460142578
Alberta Environment and Parks	2017 Status of Surface Water Quality - Lower Athabasca Region			X				https://open.alberta.ca/publications/9781460141076
Alberta Environment and Parks	2017 Status of Surface Water Quantity - Lower Athabasca Region			x				https://open.alberta.ca/publications/9781460142578
Alberta Environment and Parks	2016 Status of Surface Water Quality - Lower Athabasca Region			x				https://open.alberta.ca/publications/9781460135792
Alberta Environment and Parks	2015 Status of Surface Water Quality - Lower Athabasca Region			x				https://open.alberta.ca/publications/9781460132678
Alberta Environment and Parks	2014 Status of Surface Water Quality - Lower Athabasca Region			X				https://open.alberta.ca/publications/9781460130384
Alberta Environment and Parks	Alberta Environment and Parks (AEP). 2020. Lower Athabasca Region Status of Management Response for Environmental Management Frameworks, as of October 2019. Government of Alberta.			х				open.alberta.ca/publications/9781460147740
Alberta Environment and Sustainable Resource Development	Alberta Merged Wetland Inventory depicts wetlands within the province of Alberta for the period 1998 to 2009 classified to the Canadian Wetland Classification System (CWCS)			V	×	_	x	https://geodiscover.alberta.ca/geoportal/rest/metadata/item/bfa8b3fdf0df4ec19f7f648689237969/html
Alberta Environment	Analysis of water quality conditions and trends for the long-term river network: Athabasca River, 1960-2007			x	^	^	^	https://open.alberta.ca/publications/9780778576891
Alberta Fish and Wildlife Management Information System (FWMIS)	All fish surveys conducted in Alberta are available in the FWMIS database Fish Sustainability Index maps: current adult density, historic adult density, habitat protection need,			х	х			https://maps.alberta.ca/FWIMT_Pub/?TermsOfUseRequired=true&Viewer=FWIMT_Pub
Alberta Government	overharvesting protection need			X	Х			https://www.alberta.ca/fish-sustainability-index.aspx https://watersmartsolutions.ca/wp-content/uploads/2018/08/ARB-Initiative-
Alberta Innovates	The Athabasca River Basin Initiative			х				slides_Oct2018_final.pdf
Alberta Sustainable Resource Development 2012	Bull trout conservation management plan 2012-2017. Alberta Sustainable Resource Management, Species at Risk conservation management plan No. 8, Edmonton, 90 pp.			х	х			https://open.alberta.ca/publications/9781460102305
Alberta Water Smart - Water Management Solutions	Quantifying the effects of climate change and land use on streamflow and lake levels in teh Lesser Slave Watershed			х				https://d3n8a8pro7vhmx.cloudfront.net/lswc/pages/1051/attachments/original/151847455 1/LSWC_final_report_27112017.pdf?1518474551
Allen 2008	Allen, E. (2008). Process water treatment in Canada's Oilsands Industry: I. Target pollutants and treatment objectives. NRC Canada.			х				on file
AMEC Earth & Environmental 2007	Current and Future Water Use in Alberta. Prepared for Alberta Environment			х	Х			on file
Andrishak R and Hicks F; University of Alberta	Ice jam flood hazard assessment and mapping of the Peace River at the Town of Peace River (significant reductions in the duration and extent of ice covcer on the peace River				х			https://www.nrcresearchpress.com/doi/full/10.1139/L07-129#.XkG-KWhKiUk
Arcadis Canada Inc	2015 Northweat Territories Environmental Audit	х				х	х	http://sdw.enr.gov.nt.ca/nwtdp_upload/2015%20NWT%20Environmental%20Audit%20- %20Full%20Audit%20Report%20-%20with%20added%20Cover.pdf
Arktis Solutions	Preliminary State of Groundwater Knowledge in the Transboundary Region of the Mackenzie River Basin, Northwest Territories (2016)	х	х				х	https://www.enr.gov.nt.ca/sites/enr/files/preliminary_state_of_groundwater_knowledge_in_the_transboundary_region_of_the_mackenzie_river_basin_nwt_march_2016.pdf; Report is saved in the Task 2 Folder
Asong, Z. E., Elshamy, M. E., Princz, D., Wheater, H. S., Pomeroy, J. W., Pietroniro, A., and Cannon, A.	climate projections for MRB: High-Resolution Meteorological Forcing Data for Hydrological Modelling and Climate Change Impact Analysis in Mackenzie River Basin	х	х	х	x	x	x	https://www.earth-syst-sci-data-discuss.net/essd-2019-103/
Athabasca River Research Institute	Launched in 2008, the Athabasca River Basin Research Institute is an innovative interdisciplinary research centre that studies the Athabasca River Basin and its people from a broad range of perspectives.			x				http://arbri.athabascau.ca/institute/index.php
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Source: Author, Agency	Report title, data type, indicators	Mackenzie Great Bear	Peel	Athabasca	Peace	Liard	Great Slave	Link
, ,	State of the Watershed Phase 3 - Water Quantity and Basic Water Quality in the Athabasca							
Athabasca Watershed Council	Watershed (802 pages), includes benthic invertebrates			х				https://awc-wpac.ca/wp-content/uploads/2017/09/SOW3complete_compressed.pdf
Athabasca Watershed Council	State of the Watershed Summary Report - 2018			x				https://awc-wpac.ca/wp-content/uploads/2018/12/Athabasca-SoW-Summary-FINAL-DRAFT.pdf
	State of the watershed Phase 1 (2011) - Prepared by Hatfield (Annotated bibliography of available							http://athabascawater.wpengine.com/wp-content/uploads/2017/10/AWC-WPAC-State-of-
Athabasca Watershed Council	information on the basin as well as geospatial data)							the-Watershed-Phase-1.pdf
Athabasca Watershed Council	Athabasca State of the Watershed Report Phase 2 State of the Watershed Assessment using 14 indicators , Land use and land cover maps - current to 2009							http://athabascawater.wpengine.com/wp-content/uploads/2017/10/AWC-WPAC-State-of-the-Watershed-Phase-2.pdf
Athabasca Watershed Council	Online Interactive Atlas using geospatial information collected during Phase 2							http://awcatlas.athabascau.ca/
B. E. Brock, B. B. Wolfe, and T. W. D. Edwards	Spatial and temporal perspectives on spring break-up flooding in the Slave River Delta, NWT						×	https://onlinelibrary.wiley.com/doi/pdf/10.1002/hyp.7008
Luwarus	Baldwin, C., L. Bradford, M.K. Carr, L.E. Doig, T.D. Jardine, P.D. Jones, L. Bharadwaj, and KE.						^	Tittps://offinielibrary.wiley.com/doi/pdi/10.1002/ftyp://ooo
Baldwin et al. 2017	Lindenschmidt. 2017. Ecological patterns of fish distribution in the Slave River Delta region, Northwest Territories, Canada, as relayed by Traditional Knowledge and Western science. International Journal of Water Resources Development 627 (May): 1–20. DOI: 10.1080/07900627.2017.1298516						x	on file
Barrie Bonsal, Rajesh R. Shrestha,								
Yonas Dibike, Daniel L. Peters,								
Christopher Spence, Lawrence Mudryk and Daqing Yang, 2020	Western Canadian Freshwater Availability: Current and Future Vulnerabilities, Environmental Reviews 28: 529-545.	x	×		×	×	×	on file
Barrie R. Bonsal , Terry D. Prowse ,	20. 323 340.	^	^	^	^	^	^	of the
Claude R. Duguay ,Martin P. Lacroix	Modelling climate change impacts in the Peace and Athabasca Catchment and delta	Х	х	х	х	х	х	https://www.sciencedirect.com/science/article/pii/S0022169406001624
DC Covernment								https://governmentofbc.maps.arcgis.com/apps/MapSeries/index.html?appid=740847966e
BC Government					Х			2249c299a7739db5b0463e https://www2.gov.bc.ca/gov/content/environment/air-land-water/water/water-science-
BC Government	British Columbia snow survey data				х	х		data/water-data-tools/snow-survey-data
BC Government	Change in Snowpack in B.C. (1950-2014)				х	х		PCIC analysis here: http://www.env.gov.bc.ca/soe/indicators/climate-change/snow.html
BC Government	Climate Change Indicators				х	х		https://www2.gov.bc.ca/gov/content/environment/research-monitoring-reporting/reporting/environmental-reporting-bc/climate-change-indicators
BC Habitat Wizard	Similar to Alberta's FWMIS				х			http://maps.gov.bc.ca/ess/hm/habwiz/
BC Hydro	Peace Project Water Use Plan 2007				х			https://www.bchydro.com/toolbar/about/sustainability/conservation/water_use_planning/n_orthern_interior/peace_river.html
BC Ministry of Environment and Climate Change Strategy 2018	Northeast Water Strategy - Surface Water Quality Data Summary for Northeast British Columbia water quality data availability in north-eastern BC and some hing level results				Х	Х		https://www2.gov.bc.ca/assets/gov/environment/air-land-water/water/northeast-water-strategy/news_ne_wq_summary_2018.pdf?bcgovtm=CSMLS
BC Oil and Gas Comission	Water Use for Oil and Gas Activity					х		https://www.bcogc.ca/node/12676/download
BC Oil and Gas Comission	Annual Report on Water Management for Oil and Gas Activity							https://www.bcoqc.ca/data-reports/reports/?updateNotes=&topic=&year=&sort=&q=water
BC Oil and Gas Comission	Area based assessment for Liard Basin					Х		on file
BC OII and Gas Comission	A TOOL DOOG GOOD STITLE OF LIGHT DOOR					×		on me
Bonsal et al., 2006	Impacts of large-scale teleconnections on freshwater-ice break/freeze-up dates over Canada	х	x	х	х	х	х	https://www.sciencedirect.com/science/article/pii/S0022169406001624
Brenda Parks, Tracking Change	Literature Review of Local and Traditional Knowledge in the Liard River Watershed					х		http://www.trackingchange.ca/river-basins/mackenzie-river-basin/liard/
Bronwyn E. Brock,et al.	Flood Frequency Variability During the Past 80 Years in the Slave River Delta, NWT, as Determined from Multi-Proxy Paleolimnological Analysis						х	https://www.tandfonline.com/doi/abs/10.4296/cwrj3503281
Burn and Cuderlik, Unv of Waterloo	Hydrological trends and variability in the Liard River Basin (2004)					х		https://www.tandfonline.com/doi/pdf/10.1623/hysj.49.1.53.53994
C. Mahabir , F.E. Hicks , A. Robinson	Transferability of a neuro-fuzzy river ice jam flood forecasting model; decreasing risk of severe ice							https://www.eciencodirect.com/ecience/article/aha/###00405000000
Fayek CABIN Canadian Aquatic Biomonitoring	jams			Х				https://www.sciencedirect.com/science/article/abs/pii/S0165232X0700002X
Network	open online data						х	https://open.canada.ca/data/en/dataset/13564ca4-e330-40a5-9521-bfb1be767147
CABIN monitoring network	A watershed approach to monitoring cumulative impacts of landscape change - Peel Plataue		х					http://nwtdiscoveryportal.enr.gov.nt.ca/geoportal/catalog/search/resource/details.page?uuid=%7B04AD227F-2208-4617-8F4A-0B8102C6DBA1%7D
-								http://nwtdiscoveryportal.enr.gov.nt.ca/geoportal/catalog/search/resource/details.page?uu
Connection On combanie Information								id=%7B9A748981-AE54-49A6-844E-D6E5A36996E1%7D
Canadian Cryospheric Information Network	Meta data for hydrology and ecology	х						https://www.polardata.ca/pdcsearch/PDCSearch.jsp?doi_id=12010
Candian Council of Forest Ministers,	National Forest Information System: Forest cover, change from harvest or fire, wetlands	X	х	х	х	х	х	https://opendata.nfis.org/mapserver/nfis-change_eng.html
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	Mackenzie	River Basin	Board		
7	State	of the	Aquatic	Ecosystem	Report

Source: Author, Agency	Report title, data type, indicators	Mackenzie Great Bear	Peel	Athabasca	Peace	Liard	Great Slave	Link
oburce: Author, Agency	Water Quality Conditions and Long-Term Trends in Alberta Lakes. Water Policy Branch,	Great Bear	1 001	Alliabasca	1 cacc	Liara	Olave	
Casey 2011	Environmental Policy Division, Alberta Environment and Water			х	х			on file
CCIN (Canadian Cryospheric Information Network)	Historical and Current Lake Ice Cover and Snow Water Equivalent	x	×		×	_	×	https://ccin.ca/
Network)	Chambers, P. A., Alexander-Trusiak, A., Kirk, J., Manzano, C., Muir, D., Cooke, C. & R. Hazewinkel.	^		_ ^	_ ^		^	Intps://ccm.ca/
	2018. Surface water quality of lower athabasca river tributaries. Oil Sands Monitoring Program							
Chambers et al. 2018	Technical Report Series No. 1.3. 34 p.			Х				on file
	Chin, K., J. Lento, J.M. Culp, D. Lacelle, S.V. Kokelj (2016). Permafrost thaw and intense thermokarst activity decreases abundance of stream benthic macroinvertebrates. Global Change Biology (2016)							
Chin et al 2016	22, 2715–2728, doi: 10.1111/gcb.13225		x					on file
Colin Macdonald, Northern								
Environmental Consulting Commission for Environmental	Great Bear Lake State of Knowledge of the Terrestrial Environment (2004)	Х						http://www.dfo-mpo.gc.ca/Library/281943.pdf http://www.cec.org/tools-and-resources/north-american-environmental-atlas/north-
Cooperation	North American Land Change Monitoring System	x	×	х	x	x	x	american-land-change-monitoring-system
	Committee on the Status of Endangered Wildlife in Canada. 2012. COSEWIC Assessment and							
COSEWIC 2012	Status Report on the Bull Trout Salvelinus confluentus in Canada.			Х	Х	Х		on file
	COSEWIC assessment and status report on the Dolly Varden Salvelinus malma malma (Western Arctic populations) in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa. x							
COSEWIC. 2010.	+ 65 pp.		x					on file
	Arsenic and mercury in lake whitefish and burbot near the abandoned Giant Mine on Great Slave							
Cott, P.A., et al., (2015)	Lake, J. Great Lakes Res. , http://dx.doi.org/10.1016/j.jglr.2015.11.004						Х	on file
								http://muskwa- kechika.com/uploads/documents/miscellaneous/final_state_ofmkreport_crane_nov2008.p
Crane mgmt consultants	State of the Muskwa-Kechika Report (2008)					х		<u>df</u>
Danielle Cobbaert and Alina Wolanski,	BC-Alberta Transboundary Waters Bilateral Agreement, Water Quality Conditions Report (incl.							
Alberta Environment 2011	Peace, Smoky, Wapiti, Hay River (Great Slave trib), Petitot R. (Liard R. Trib))			1	Х		Х	on file
Daqing Yang, Xiaogang Shi,Philip Marsh	Variability and extreme of Mackenzie River daily discharge during 1973-2011	х	x	х	х	х	х	https://core.ac.uk/download/pdf/82034983.pdf
	River Water Temperature in Relation to Local Air Temperature in the Mackenzie and Yukon Basins							
Daqing Yang and Amber Peterson	2016	Х	Х	Х	Х	Х	Х	https://journalhosting.ucalgary.ca/index.php/arctic/article/view/67665
	A MASS-BALANCED ECOPATH MODEL OF GREAT SLAVE LAKE TO SUPPORT AN ECOSYSTEM							
	APPROACH TO FISHERIES MANAGEMENT :							
DFO	PRELIMINARY RESULTS						Х	https://pdfs.semanticscholar.org/f34d/8748a5885b2a1b4a50edfbe01f97f4c5dbfe.pdf
DFO	site for fisheries reports from DFO	х	х	Х	Х	Х	Х	https://science-libraries.canada.ca/eng/home/
DFO 2013	Fisheries and Oceans Canada 2013. Assessment of Buffalo River Inconnu (<i>Stenodus eucichthys</i>) Great Slave Lake, Northwest Territories, 1945-2009.						x	on file
DFO 2015	Assessment of lake whitefish in Great Slave Lake, Northwest Territories, 1972-2004							on file
2. 6 26.16				1				http://dspace.library.uvic.ca:8080/bitstream/handle/1828/10196/Dibike_Yona_JournHydrol
Dibike et al	Modelling the Athabasca watershed snow response to a changing climate			Х				RegStud_2018.pdf?sequence=1&isAllowed=y
Donald H. Burn, Omar I. Abdul Aziz and Alain Pietroniro	A Comparison of Trends in Hydrological Variables for Two Watersheds in the Mackenzie River Basin (flow magnitude and timing)			×		×		https://www.tandfonline.com/doi/abs/10.4296/cwri283
Donald H. Burn,Juraj M. Cunderlik &Alain	, ,		-					Intps://www.tandroniine.com/doi/abs/10.4290/cwij265
Pietroniro	Hydrological trends and variability in the Liard River basin					х		https://www.tandfonline.com/doi/abs/10.1623/hysj.49.1.53.53994
Dr. Brando Barlas - Trasking Observe	Literatura Pavianus I agal and Tradictional Manufadas in the Carol Book Late Water Late (2010)							http://www.trackingchange.ca/literature-review/literature-review-local-and-traditional-
Dr. Brenda Parlee , Tracking Change	Literature Review: Local and Tradiational Knowledge in the Great Bear Lake Watershed (2019) Droppo, I. G., Prowse, T., Bonsal, B., Dibike, Y., Beltaos, S., Krishnappan, B., Eum, H-I., Kashyap,	Х		<u> </u>				knowledge-in-the-great-bear-lake-watershed/
	S., Shakibaeinia, A. & A. Gupta. 2018. Regional hydro-climatic and sediment modelling. Oil Sands							
Droppo et al. 2018	Monitoring Program Technical Series No. 1.6. 89 p.			Х				on file
Ducks Unlimited	Canadian Wetland Inventory (CWI)	Х	х	Х	х	х	х	https://www.ducks.ca/initiatives/canadian-wetland-inventory/
Ducks Unlimited Canada	Water Resources Assessment for the Peel Watershed (2008)		x					https://peel.planyukon.ca/downloads/dmdocuments/Water%20Resources%20Assessment%20Report.pdf
Ducks Offill litter Callada	Water Mesources Assessment for the Feer Watershed (2000)		 ^	 				https://peel.planyukon.ca/downloads/dmdocuments/Water%20Resources%20Assessmen
Ducks Unlimited Canada	Water Resources Assessment for the Peel Watershed (2008)		x					t%20Report.pdf
Duguay, C.R., T.D. Prowse, B.R. Bonsal,								
R.D. Brown, M.P. Lacroix, and P. Menard 2006	Recent trends in Canadian lake ice cover	х	l x	x	×	x	×	https://onlinelibrary.wiley.com/doi/abs/10.1002/hyp.6131
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Source: Author, Agency	Report title, data type, indicators	Mackenzie Great Bear	Peel	Athabasca	Peace	Liard	Great Slave	Link
Dunmall et al. 2013	K.M. Dunmall, J.D. Reist, E.C. Carmack, J.A. Babaluk, M.P. Heide-Jørgensen, and M.F. Docker. 2013. Pacific Salmon in the Arctic: Harbingers of Change. In: F.J. Mueter, D.M.S. Dickson, H.P. Huntington, J.R. Irvine, E.A.Logerwell, S.A. MacLean, L.T. Quakenbush, and C. Rosa (eds.), Responses of Arctic Marine Ecosystems to Climate Change. Alaska Sea Grant, University of Alaska Fairbanks. doi:10.4027/ramecc.2013.07	x	x					on file
Dunmall et al. 2018	Community-based Monitoring Demonstrates Increasing Occurrences and Abundances of Pacific Salmon in the Canadian Arctic from 2000 to 2017. Karen M. Dunmall, Darcy G. McNicholl, and James D. Reist. North Pacific Anadromous Fish Commission Technical Report No. 11:87–90, 2018	x						on file
Eastern Athabasca Regional Monitoring Program	Established in 2011 under Saskatchewan's Boreal Watershed Initiative. Has two sub-programs: (1) community program and (2) technical program: EARMP Community Report: Eastern Athabasca Regional Monitoring Program. 2018/2019 Community Report. Final Report. April 2020. Canada North Environmental Services. 2016. Eastern Athabasca Regional Monitoring Program 2015. Technical Report. Prepared for the Government of Saskatchewan.			×				http://earmp.ca/reports.html
EDI Environmental Dynamics Inc.	Peel River Watershed Fisheries Information Summary Report - Preliminary Assessment		х					https://peel.planyukon.ca/downloads/dmdocuments/Fisheries_Info_Summary.pdf
Environment and Climate Change Canada	Lower Mackenzi River Basin Long-Term WQ Monitoring Data	х	х			х		http://data.ec.gc.ca/data/substances/monitor/national-long-term-water-quality-monitoring-data/lower-mackenzie-river-basin-long-term-water-quality-monitoring-data-canada-s-north/?lang=en
Environment and Climate Change Canada	climate normals, historical climate data	х	х	х	х	х	х	https://climate.weather.gc.ca/
Environment and Climate Change Canada	WSER data base on effluent volumes	х	х	х	х	х	х	https://open.canada.ca/data/en/dataset/9e11e114-ef0d-4814-8d93-24af23716489
Environment and Climate Change Canada	Snow cover – Annual variations in spring (April, May and June) snow cover extent, Canada	х	х	х	х	х	х	https://open.canada.ca/data/en/dataset/d1d4d6e8-19b2-4a1a-a76e-5d150c85421d
Environment and Climate Change Canada	National long-term water quality monitoring data		х	х	х	х	х	https://open.canada.ca/data/en/dataset/67b44816-9764-4609-ace1-68dc1764e9ea
Environment and Climate Change Canada	Open-map Viewer - National long-term water quality monitoring data							https://open.canada.ca/data/en/fgpv_vpgf/67b44816-9764-4609-ace1-68dc1764e9ea
Environment and Climate Change Canada	Pacific-Yukon Water Quality Data		х			х		http://aquatic.pyr.ec.gc.ca/webdataonlinenational/
Environment and Climate Change Canada	Monitoring Water Quality in Alberta Oil Sands - include surface annd groundwater quality, surface water quantity, sediment quality, benthic invertebrates, fish health, toxicology and contaminants.			х				https://www.canada.ca/en/environment-climate-change/services/oil-sands-monitoring/monitoring-water-quality-alberta-oil-sands.html
Environment and Climate Change Canada 2019	Baseline surface water quality in the Petitot River Basin and surrounding watersheds. Examining Potential Impacts of Shale Gas Development in the Horn River Basin, British Columbia					Х		http://publications.gc.ca/collections/collection_2019/eccc/En84-147-2017-eng.pdf
Environment and Climate Change Canada and Alberta Environment and Parks	Peace - Athabasca River Basin Long-term Water Quality Monitoring Data			x	x			https://open.canada.ca/data/en/dataset/0c31b924-9aaf-4ca0-ae29-276bafecf008
Environment and Climate Change Canada and Alberta Environment and Parks	Surface Water Quality of the Athabasca, Peace and Slave Rivers and Riverine Water Bodies within the Peace-Athabasca Delta			x	x		x	https://open.alberta.ca/dataset/96023005-e194-4856-9266- 3ade974fd43d/resource/2199ba47-d473-4341-a9e5-0b4d1c8d5e6a/download/os-ts- water-14-surface-water-quality-mainstem-tribs-delta.pdf
Environment and Climate Change Canada: CABIN	Canadian Aquatic Biomonitoring Network benthic macroinvertebrate data	х	х	х	х	х	х	https://www.canada.ca/en/environment-climate-change/services/canadian-aquatic-biomonitoring-network.html
Environment Canada	Environment Canada Ice thickness data: Yellowknife, Inuvik, Fort Chipewyan, possibly more	x		х			х	https://www.canada.ca/en/environment-climate-change/services/ice-forecasts-observations/latest-conditions/archive-overview/thickness-data.html
Environment Canada WQ monitoring	Overview of freshwater quality monitoring and surveillance	х	х	х	х	х	х	https://www.canada.ca/en/environment-climate-change/services/freshwater-quality-monitoring/overview.html
Environment Yukon	Community-Based Fish and Wildlife Work Plan (2009-2019)		х					https://yukon.ca/sites/yukon.ca/files/env/env-community-based-fish-wildlife-work-plan-na-cho-nyak-dun-traditional-territory-2014-2019.pdf
Environment Yukon	Monitoring network database		х			х		http://yukon.maps.arcgis.com/apps/webappviewer/index.html?id=2365a4c0b8744f34be7f 1451a38493d2







	Mackenzie					
7	State	of	the	Aquatic	Ecosystem	Report

		Mackenzie					Great	
Source: Author, Agency	Report title, data type, indicators	Great Bear	Peel	Athabasca	Peace	Liard	Slave	Link
								http://www.env.gov.yk.ca/publications- maps/documents/yukonwater_climatechange_report.pdf
Environment Yukon	Yukon Water - Assessment of Climate Change Vulnerabilities (2011)		Х			Х		<u>Data+Reports/Peel/Climate</u>
Environment Yukon	Water for Nature, Water for People - Yukon water strategy action plan (2014)		x			×		https://yukon.ca/sites/yukon.ca/files/env/env-yukon-water-strategy-action-plan.pdf
	ENVIRONMENT YUKON. 2010. Status of Yukon Fisheries 2010: An overview of the state of Yukon							
Environment Yukon	fisheries and the health of fish stocks, with special reference to fisheries management programs. Yukon Fish and Wildlife Branch Report MR-10-01		х			х		https://yukon.ca/sites/yukon.ca/files/env/env-status-yukon-fisheries-2010.pdf
Environment Yukon	Status Report on Amphibians in the Yukon (2011)		х			х		http://www.env.gov.yk.ca/publications-maps/documents/StatusReportonAmphibiansintheYukon2011.pdf
Faye Hicks, Robyn Andrishak, and Yuntong She	Modeling Ice Cover Consolidation during Freeze-up on the Peace River, AB				х			http://www.cripe.ca/docs/proceedings/17/Jasek-et-al-2013.pdf
Findlay, Leanne; Kohen, Dafna; Langlois,								
Kellie. 2013	Dietary habits of Aboriginal children, unsure if data available by region							https://www150.statcan.gc.ca/n1/pub/82-003-x/2013004/article/11776-eng.pdf
FLNRO - GeoBC	Baseline Thematic Mapping Present Land Use Version 1. This layer represents Land use polygons as determined by a combination of analytic techniques, mostly using Landsat 5 image mosaics.				х	x		https://catalogue.data.gov.bc.ca/dataset/baseline-thematic-mapping-present-land-use-version-1-spatial-layer
FLNRO - GeoBC	Freshwater Atlas wetland polygons for the province (BC)				х	х		https://catalogue.data.gov.bc.ca/dataset/freshwater-atlas-wetlands
	Water rights licence data administrated under the Water Sustainability Act which includes data for							
FLNRO - GeoBC	both surface water and groundwater Points of Diversions				х	Х		https://catalogue.data.gov.bc.ca/dataset/water-rights-licences-public
French and Carmichael 1999	Limnological Aspects of Charlie Lake (Peace River Drainage, British Columbia): A Summary of Data Collected Between 1974 and 1995				х			https://www2.gov.bc.ca/assets/gov/environment/air-land- water/waterquality/monitoring-water-quality/cariboo-skeena-omineca-wq- docs/wq_om_charlie_lake_data.pdf
G.S. Strong , B. Proctor , M. Wang , E.D. Soulis , C.D. Smith , F. Seglenieks & K. Snelgrove	Closing the Mackenzie basin water budget, water years 1994/95 to 1996/97	x	x	×	х	x	×	https://www.tandfonline.com/doi/abs/10.3137/ao.400203
Global Energy and Water cycle	the Canadian Mackenzie GEWEX Study (MAGS): information on Snow and Ice, temperature and		^	,		^		110007777777777777777777777777777777777
Exchanges project	precipitation, Water Flow and Levels, water use etc	х	х	х	х	х	х	http://www.usask.ca/geography/MAGS/index_e.htm
Global Water Futures - Data Portal	Variety of datasets derived through academic research		х	Х	х			http://giws.usask.ca/meta/
Glozier et al. 2018	Surface Water Quality of the Athabasca, Peace and Slave Rivers and Riverine Waterbodies within the PeaceAthabasca Delta. Oil Sands Monitoring Program Technical Report Series No. 1.4. 64 p			x				on file
GNWT	Snow Survey Monitoring Network	х	х			х	х	https://www.enr.gov.nt.ca/en/services/water-management-and-monitoring/water-quality-monitoring-networks
GNWT	NWT ENR monitoring data	Х	х			х	х	https://www.enr.gov.nt.ca/en/services/water-management-and-monitoring
GNWT	GNWT ENR Transboundary River Water Quality Monitoring Network		х			x	x	https://www.enr.gov.nt.ca/en/services/water-management-and-monitoring/water-quality-monitoring-networks
	North Slave Water Quality Network							https://www.enr.gov.nt.ca/en/services/water-management-and-monitoring/water-quality-
GNWT	Northwest Territories Cumulative Impact Monitoring Program (NWT CIMP). Monitoring and Research						Х	monitoring-networks
Department of Environment and Natural Resources (2016)	Results 2010-2015 Fish. ISBN: 978-0-7708-0242-4. Yellowknife, NT: Northwest Territories Cumulative Impact Monitoring Program, Department of Environment and Natural Resources, Government of the Northwest Territories.	x					×	http://sdw.enr.gov.nt.ca/nwtdp_upload/CIMP%20fish%20report_web_revised.pdf
(2010)	Golder Associates Ltd. (2004) .Review of Historical Fisheries Information for Tributaries of the	^					^	Internountain gov.ni.commutap aproacronnii /ozonsii/ozonepoit web tevised.pdi
Golder and Associates (for RAMP Steering Committee)	Athabasca River in the Oil Sands Region.Submitted to Regional Aquatics Monitoring Program (RAMP), Steering Committee.			x				http://www.ramp- alberta.org/UserFiles/File/RAMPMonitoring/RAMP_Historical_Fisheries_Report.pdf
Golder and Associates (for RAMP Steering Committee)	Review of Historical Benthic Invertebrate Data for Rivers and Streams in the Oil Sands Region (2003)			x				http://www.ramp- alberta.org/UserFiles/File/RAMPMonitoring/RAMP_Historical_Benthos_Report.pdf
Golder Associatos	Central Mackenzie Surface Water and Groundwater Baseline Assessment							https://www.nwt-esrf.org/sites/default/files/2016- 10/Central%20Mackenzie%20Water%20and%20Groundwater%20Baseline%20Assessment%20Report%201%20-%20Technical%20State%20of%20Knowledge.pdf
Golder Associates Golder Associates	Stream Assessments for Environmental Assessment, Liard River Basin (2014)	Х				Х		http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=48837
COIGOT AGGODIALES	Central Mackenzie Surface Water and Groundwater Baseline Assessment. Report 1: Technical State		-			 ^	1	Enterna 100. gov. po. carpubracar publici viewi teport. do : reportiu=40007
Golder Associates 2015	of Knowledge	х					х	on file





Source: Author, Agency	Report title, data type, indicators	Mackenzie Great Bear	Peel	Athabasca	Peace	Liard	Great Slave	Link
								http://a100.gov.bc.ca/appsdata/acat/documents/r54471/WSS_2018-
Gov of BC, Quanterany Geosciences LTD	Liard and Petitot Sub Basins Transboundary Groundwater Resources Assessment (2018)					Х		01 Liard GW 1532283781445 2278704448.pdf https://www.enr.gov.nt.ca/sites/enr/files/slave_river_environmental_quality_monitoring_pr
Government of AB	SLAVE RIVER ENVIRONMENTAL QUALITY MONITORING PROGRAM						x	ogram - report summary 1998.pdf
								https://open.alberta.ca/dataset/fe41d4f2-a624-4900-bd7d-
Government of Alberta	Surface Water Quality of the Lower Athabasca Tributaries (2018)			x				fb451e2daba2/resource/925e1d3d-5606-4716-b457-7ea7d31dad6e/download/os-ts- water-13-surface-water-quality-tributaries.pdf
	Online tool to obtain a list of water licences per watershed (incl. return flows, consumptive use,							
Government of Alberta	location, sector), sorting by values			Х	Х			https://afetuw.alberta.ca/
Government of Canada	Canada's changing climate report: Changes in Freshwater Availability Across Canada	x						https://www.nrcan.gc.ca/sites/www.nrcan.gc.ca/files/energy/Climate-change/pdf/CCCR-Chapter6-ChangesInFreshwaterAvailabilityAcrossCanada.pdf
Government of Canada	National Hydrometric Data		х	х	х	х	х	https://wateroffice.ec.gc.ca/
Government of Canada	Lower Athabasca Water Quality Monitoring Program -Phase 1 - Athabasca River Mainstem and Major Tributaries			х				http://publications.gc.ca/collections/collection_2011/ec/En14-42-2011-eng.pdf
	Northwest Territorries State of the Environment Report	Х	х			х	х	https://www.enr.gov.nt.ca/en/nwt-state-environment-report
	Five year Technical Review of the NWT-wide Community Based Water Quality Monitoring Program (2012-2016)	X	Х			_	х	https://www.enr.gov.nt.ca/sites/enr/files/resources/water_quality_monitoring_program_pla in language_summary_2012.pdf
	NWT Discovery Portal, A Source for Environmental Knowledge	X	X			^ x	×	https://nwtdiscoveryportal.enr.gov.nt.ca/geoportal/catalog/search/search.page
	Households Eating Meat or Fish from Hunting or Fishing	X						https://www.statsnwt.ca/Traditional%20Activities/
								https://www.hss.gov.nt.ca/en/services/recommandations-sur-la-consommation-de-
	Government of Northwest Territories. Site-Specific Fish Consumption Advice.	Х	Х			Х	Х	poisson/site-specific-fish-consumption-advice
Government of Yukon (2011).	Yukon Water: An Assessment of Climate Change Vulnerabilities.		Х		Х	Х		on file https://yukon.ca/en/snow-surveys-and-water-supply-forecasts#snow-and-water-supply-
Government of Yukon.	Yukon Snow Survey Bulletins.					х		data
	2017 Alberta-NWT Transboundary Water Quantity Technical Report						х	https://www.enr.gov.nt.ca/sites/enr/files/resources/2017_water_quantity_technical_report _finalupdated.pdf
Ltd	Report: Stream Classification and Fish Habitat Assessments in Liard, Beaver and Fort Nelson River watersheds (2012)					х		http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=49774
Hall et al. 2019	Discussion of "Frequency of ice-jam flooding of Peace-Athabasca Delta. Canadian Journal of Civil Engineering, 45(1): 71–75.			х	х			on file
	Hatfield Consultants (2016). Regional Aquatics Monitoring in support of the Joint Oil Sands Monitoring Plan. Final 2015 Program Report. Prepared for AEMERA. Edmonton, AB.			x				http://www.ramp-alberta.org/ramp/results/report.aspx
	Investigation of Trends in Select Water Quality Variables at Long-Term Monitoring Sites on the Wapiti River, Alberta				х			on file
	Investigation of Trends in Select Water Quality Variables at Long-Term Monitoring Sites on the Smoky River, Alberta				х			on file
	Permafrost thaw induced drying of wetlands at Scotty Creek, NWT, Canada. Environmental Research Letters 13: 114001					х		on file
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			 			 		https://www.researchgate.net/publication/223690773 Variability in ice phenology on G
Howell et al	Variability in ice phenology on Great Bear Lake and Great Slave Lake, NorthwestTerritories, Canada	,,					.,	reat Bear Lake and Great Slave Lake Northwest Territories Canada from SeaWind sQuikSCAT 2000-2006
Howell et al.	Long term monitoring of Sahtu (Great Bear Lake) fisheries and the aquatic ecosystem: Project	Х					Х	<u>SQUINSON 1_2000-2000</u>
	Update 2014-15.	х						on file
	BACKGROUND REPORT ON AQUATIC ECOSYSTEM HEALTH FOR THE PEACE RIVER WATERSHED				х			http://mightypeacesow.org/pdf/MPWA Aquatic Ecosystems Background Report.pdf
2015	Technical Update: Examining the Health of the Lesser Slave Watershed; Plain Language Summary of: Technical Update for the Lesser Slave Watershed			X				https://www.lswc.ca/state_of_the_watershed
	5-year review of the Government of the Northwest Territories Community Based Monitoring Program. Prepared for: Government of the Northwest Territories.	х	х			х	х	on file
	Inter-comparison of high-resolution gridded climate data sets and their implication on hydrological model simulation over the Athabasca Watershed, Canada			х				https://onlinelibrary.wiley.com/doi/abs/10.1002/hyp.10236
lan Macdonald for the Gwich'in Renewable Resource Board	Gwich'in Harvest Study (2009)	Х	х					http://www.grrb.nt.ca/pdf/GHS/Harvest_Study_Report_FINAL09Web.pdf
INAC - Water Resources Division	Hydrologic Overview of the Gwich'in and Sahtu Settlement Areas (2001)	х	х				х	https://www.enr.gov.nt.ca/sites/enr/files/hydrologic_overview_of_the_gwichin_and_sahtu_settlement_areas_2004.pdf





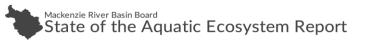


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Source: Author, Agency	Report title, data type, indicators	Mackenzie Great Bear	Peel	Athabasca	Peace	Liard	Great Slave	Link
INAC - Water Resources Division	Overview of the Hydrology of the Deh Cho Region - NWT (2002)	Х				х	х	http://publications.gc.ca/site/eng/9.699494/publication.html
INAC - Water Resources Division	Hydrologic Overview of the North and South Slave Regions (2003)						х	http://publications.gc.ca/site/eng/9.699493/publication.html
Indian and Northern Affairs Canada	Peel River Water and Suspended Sediment Sampling Program (2002-2007)		х					https://www.enr.gov.nt.ca/sites/enr/files/peel_river_water_and_suspended_sediment_sampling_program_20022007.pdf
Indian and Northern Affairs Canada 1998	Liard River Environmental Quality Monitoring Program					х		https://www.enr.gov.nt.ca/sites/enr/files/liard_river_environmental_quality_monitoring_program - summary_report_1998.pdf
Islam and Leidl 2018, Alberta	Otation of Overface Water Oversities 2045 and 2040. Leaves Athahanas Basins							https://www.alberta.com/out/2-of-out/0704400405000
Environment and Parks	Status of Surface Water Quantity - 2015 and 2016 - Lower Athabasca Region Partitioning impacts of climate and regulation on water level variability in Great Slave Lake (ice jams			Х				https://open.alberta.ca/publications/9781460135808
J.J. Gibson, T.D. Prowse, D.L. Peters	and water levels)						х	https://www.sciencedirect.com/science/article/pii/S0022169406000928
								https://www.planyukon.ca/index.php/documents-and-downloads/peel-watershed-planning commission/resource-assessment-reports/sector-specific-resource-reports/526-water-
James Kenyon, Ducks Unlimited	Water Resources Assessment for the Peel Watershed (2008)		х					resources-assessment-report/file
JOSM	2018-2019 Ambient Environment Monitoring Plan for Oil Sands Development			x				http://environmentalmonitoring.alberta.ca/2018-2019-ambient-environment-monitoring-plan-for-oil-sands-development/
Juraj M. Cunderlik, Taha B.M.J. Ouarda	Trends in the timing and magnitude of floods in Canada; timing and magnitude of floods, including ice jam-induced flooding	х		x	х	х	х	https://www.sciencedirect.com/science/article/pii/S0022169409003874
Lindenschmidt, KE. et al. 2015	Ice jam flood hazard assessment and mapping of the Peace River at the Town of Peace River ;ice jam flooding				х			http://cripe.ca/docs/proceedings/18/23 Lindenschmidt et al 2015.pdf
Kaska Dena Council	Dease-Liard Basin Land Use plans and maps					х		https://kaskadenacouncil.com/dease-liard-land-use-plan/
Kelly et al. 2010	Kelly, E.N., D.W. Schindler, P.V. Hodson, J.W. Short, R. Radmanovich, and C.C. Nielsen 2010. Oil sands development contributes elements toxic at low concentrations to the Athabasca River and its tributaries. Proceedings of the National Academy of Sciences of the United States of America. 107 (37) 16178-16183;			x				https://doi.org/10.1073/pnas.1008754107
Kimberly Howland, Yamin Janjua, Colin Gallagher, Ellen Lea, Xinhua Zhu 2017	Great Slave Lake Fisheries: Lake Trout						х	on file
Kokelj et al. 2013	Kokelj SV, Lacelle D, Lantz TC, Tunnicliffe J, Malone L, Clark ID, Chin KS (2013) Thawing of massive ground ice in mega slumps drives increases in stream sediment and solute flux across a range of watershed scales. Journal of Geophysical Research: Earth Surface, 118, 81–692.		×					on file
Korosi et al. 2017	Broad-scale lake expansion and flooding inundates essential wood bison habitat						х	https://www.nature.com/articles/ncomms14510.pdf
Lacroix, M.P., Prowse, T.D., Bonsal, B.R., Duguay, C.R., Menard, P.	River ice trends in Canada. In: Proceedings of the 13th Workshop on the Hydraulics of Ice Covered Rivers; earlier occurrence of river ice break up	х	х	х	х	х	х	http://www.cripe.ca/docs/proceedings/13/Lacroix-et-al-2005.pdf
Lamontagne-Halle et al 2018	Lamontagne-Halle, P. J.M. McKenzie, B.L. Kurylyk and S.C. Zipper 2018. Changing groundwater discharge dynamics in permafrost regions. Environmental Research Letters 13: 084017	х	х			х		https://iopscience.iop.org/article/10.1088/1748-9326/aad404
Laurent P. de Rham, Terry D. Prowse, Spyros Beltaos and Martin P. Lacroix	Assessment of annual high-water events for the Mackenzie River basin, Canada	х	х	х	х	х	х	https://onlinelibrary.wiley.com/doi/abs/10.1002/hyp.7016
Laurent Paul de Rham	Spatial and Temporal Variations of River-ice Break-up, Mackenzie River Basin, Canada (MSc Thesis)	x	×	x	x	×	x	https://dspace.library.uvic.ca/bitstream/handle/1828/1609/de Rham Thesis FINAL.pdf?sequence=1&isAllowed=y
Lesack et al. 2014	Local spring warming drives earlier river-ice breakup in a large Arctic delta	Х						on file
Lesser Slave Lake Watershed Council	Lesser Slave Lake Integrated Water Mgmt Plan (2018)			х				http://www.slavelake.ca/ArchiveCenter/ViewFile/Item/293
Lesser Slave Watershed Council	State of the Lesser Slave Watershed Report (2009)			х				https://d3n8a8pro7vhmx.cloudfront.net/lswc/pages/18/attachments/original/1485715939/LSWC_stateofthewatershed_2010.pdf?1485715939
Lesser Slave Watershed Council	State of the Lesser Slave Watershed Report (2009) Presentation			х				https://d3n8a8pro7vhmx.cloudfront.net/lswc/pages/18/attachments/original/1485716022/Fresentation_LSWC2.pdf?1485716022
Lesser Slave Watershed Council	Technical Update for Lesser Slave Watershed (2015)			х				https://d3n8a8pro7vhmx.cloudfront.net/lswc/pages/18/attachments/original/1485717347/2015-LSL_technical-report_final.pdf?1485717347
Lesser Slave Watershed Council	2017 Water Quality Summary Report			х				https://d3n8a8pro7vhmx.cloudfront.net/lswc/pages/42/attachments/original/1528989611/Lesser_Slave_Water_Monitoring_Program_Report_June_5_2018.pdf?1528989611_
Lesser Slave Watershed Council	2018 Water Quality Summary Report			x				https://d3n8a8pro7vhmx.cloudfront.net/lswc/pages/42/attachments/original/1561752684/Lesser_Slave_Water_Monitoring_Program_2018_Report.pdf?1561752684
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Source: Author, Agency	Report title, data type, indicators	Great Bear	Peel	Athabasca	Peace	Liard		Link
Lorien and Tom Nesbitt for Deline Renewable Resources Council	Maintaining Ecological Integrity in Great Bear Lake and Its Watershed (2009)	х						on file
M.E. Kindle, 1920, Geological Survey of Canada	Arrival and Departure of winter conditions in the Mackenzie River Basin	x	x	x	х	x	х	https://www.jstor.org/stable/207533?seq=1#metadata_info_tab_contents
MacDonald Environmental Services Ltd.	MacDonald (MacDonald Environmental Services Ltd.). 1993. An assessment of ambient environmental conditions in the Liard River Basin, Northwest Territories. Prepared for Water Resources Division, Indian and Northern Affairs Canada, Yellowknife, NWT. 89 p.							cited in Taylor et al. 1998
Mackenzie Data Stream	Online database		х	х	х	х	х	https://mackenziedatastream.ca
Mackenzie river basin board 2012	The Mackenzie River Basin Board's 2012 Issues Report. Oil sands development, hydroelectric development, and climate change in the Mackenzie River Basin.	х	х	х	х	х	х	https://www.mrbb.ca/uploads/media/5c1ab22236f24/mrbb-2012-issues-report.pdf?v1
Mackenzie Valley Land and Water Board	Staff Report on Fort Smith wastewater sampling program						x	http://registry.mvlwb.ca/Documents/MV2011L3-0001/MV2011L3-0001%20- %20Town%20of%20Fort%20Smith%20-%20SNP%20Change%20- %20Staff%20Report%20and%20Comments%20-%20Oct5-16.pdf
Mahdianpari et al. 2020	Mahdianpari, M., Salehi, B., Mohammadimanesh, F., Brisco, B., Homayouni, S., Gill, E., DeLancey, E.R. and Bourgeau-Chavez, L., 2020. Big Data for a Big Country: The First Generation of Canadian Wetland Inventory Map at a Spatial Resolution of 10-m Using Sentinel-1 and Sentinel-2 Data on the Google Earth Engine Cloud Computing Platform. Canadian Journal of Remote Sensing, 46(1), pp.15-33.	x	x	x	x	x	x	on file
Marlene Evans, Derek Muir, Robert B Brua, Jonathan Keating, Xiaowa Wang 2013	Mercury Trends in Predatory Fish in Great Slave Lake: The Influence of Temperature and Other Climate Drivers						х	https://pubmed.ncbi.nlm.nih.gov/24111928/
McMaster, M., Parrott, J., Bartlett, A., Gagné, F., Evans, M., Tetreault, G., Keith, H. & J. Gee. 2018.	Aquatic ecosystem health assessment of the athabasca river mainstem and tributaries using fish health and fish and invertebrate toxicological testing. Oil Sands Monitoring Program Technical Report Series No. 1.8. 76 p.			х				on file
Meikle & Waterreus 2008	Meikle, John C. and Marcus B. Waterreus. 2008. Ecosystems of the Peel Watershed: A Predictive Approach to Regional Ecosystem Mapping. Yukon Fish and Wildlife Branch Report TR-08-01. 66 pp.		х					on file
Meikle, John C. and Marcus B. Waterreus. 2008	Meikle, John C. and Marcus B. Waterreus. 2008. Ecosystems of the Peel Watershed: A Predictive Approach to Regional Ecosystem Mapping. Yukon Fish and Wildlife Branch Report TR-08-01. 66 pp.		х					https://yukon.ca/sites/yukon.ca/files/env/env-ecosystems-peel-watershed.pdf; saved in Peel-Wetlands and Forest
Michael Green et al, UNEP-WCMC	Peel Watershed, Yukon International Significance from the perspective of Parks, Recereation and Conservation		х					https://peel.planyukon.ca/downloads/dmdocuments/Peel%20International%20Significance%20Report.pdf
Might Peace Watershed Alliance, 2015	State of the Watershed Report				х			http://mightypeacesow.org/pdf/MPWA-SoW_Full.pdf
Mighty Peace Watershed Alliance	State of the Watershed (2015) - inlcudes info on land use, wetlands, riparian areas, habitat, surface water quanity and quality, groundwater quantity and quality, fish				х			http://mightypeacesow.org/contents.html
Mighty Peace Watershed Alliance	REGIONAL HYDROLOGICAL ASSESSMENT of the PEACE RIVER WATERSHED				х			http://mightypeacesow.org/pdf/MPWA_Regional_Hydrological_Assessment.pdf
Mighty Peace Watershed Alliance	BACKGROUND REPORT ON AQUATIC ECOSYSTEM HEALTH FOR THE PEACE RIVER WATERSHED, water quality in lakes and rivers, land use and cover, riparian health, fish populations				x			http://mightypeacesow.org/pdf/MPWA Aquatic Ecosystems Background Report.pdf
Mighty Peace Watershed Alliance	The Peace Watershed. Current and future Water Use and Issues 2011				х			https://www.mightypeacewatershedalliance.org/resources/
MK Woo et al. 2007	Science Meets Traditional Knowledge: Water and Climate in the Sahtu (Great Bear Lake) Region, Northwest Territories, Canada	х						https://journalhosting.ucalgary.ca/index.php/arctic/article/view/63325
MLWB, SLWB, GLWB, WLWB	Public registry Mackenzie Land and Water Board, (links to Sahtu LWB, Gwich'in, Wek'eezhii Land and Water Boards)	х	х			х	х	https://mvlwb.com/registry
Mochnacz and Reist	Biological and Habitat Data for Fish Collected During Stream Surveys in the Sahtu Settlement Region, Northwest Territories, 2006. Mochnacz and Reist. 2007. Fisheries and Oceans Canada.	x						https://www.researchgate.net/profile/Jim_Reist/publication/240617636_Biological_and_H abitat_Data_for_Fish_Collected_During_Stream_Surveys_in_the_Sahtu_Settlement_Reg ion_Northwest_Territories_2006/links/0a85e5373742a95dcf000000/Biological-and-Habitat-Data-for-Fish-Collected-During-Stream-Surveys-in-the-Sahtu-Settlement-Region-Northwest-Territories-2006.pdf
Mohamed E. Elshamy, Daniel Princz, Gonzalo Sapriza-Azuri, Mohamed S. Abdelhamed, Al Pietroniro, Howard S. Wheater, and Saman Razavi	On the configuration and initialization of a large-scale hydrological land surface model to represent permafrost 2019	х	х	х	х	х	х	https://www.hydrol-earth-syst-sci.net/24/349/2020/
MSc Thesis : Ryan William Scott	The diversity and composition of benthic macroinvertebrate assemblages in streams in the Mackenzie River System, Northwest Territories	х				х	х	https://pdfs.semanticscholar.org/82da/a3ac73de28a7f12ed2117856917077b49439.pdf
Natural Resources Canada	30 m land cover map of Canada for the year 2015	х	х	х	х	х	х	https://open.canada.ca/data/en/dataset/4e615eae-b90c-420b-adee-2ca35896caf6







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Source: Author, Agency	Report title, data type, indicators	Mackenzie Great Bear	Peel	Athabasca	Peace	Liard	Great Slave	Link
Newton and Kashyap, 2019. Government of Alberta	2017 status of surface water quantity, Lower Athabasca Region, Alberta			х				https://open.alberta.ca/publications/9781460142578
Northern Water Futures	Global Water Futures Project		х			Х	Х	https://researchcentres.wlu.ca/northern-water-futures/index.html
	· · · · · · · · · · · · · · · · · · ·							http://nwtdiscoveryportal.enr.gov.nt.ca/geoportal/catalog/search/resource/details.page?uu
NWT CIMP	2015-15- Final Report(CIMP108)		Х					id=%7BE30E74AB-B5A0-40A4-9D0C-74861C702D24%7D
NWT Community Based Monitoring	2013 NWT CBM	х	х			х	х	https://www.enr.gov.nt.ca/sites/enr/files/water_poster_24x36_150610_web.pdf
	Community-based Fish Monitoring Project https://open.alberta.ca/dataset/2f62ea92-8f9d-434f-							
Oil Con de Manitario a Bronner	95fc-2def0a6b1384/resource/48cd9f86-bdd3-4584-b4f4-							http://www.incompositering.clb.outc.co/
Oil Sands Monitoring Program	9c7f031a6f92/download/fctfishmonitoring20190528.pdf			×	Х			http://environmentalmonitoring.alberta.ca/
								https://open.alberta.ca/dataset/daa28b83-827f-4e85-9a05- 13d789e857fd/resource/85c7c448-37a8-4f1c-aa2a-796000cc62dd/download/os-ts-water-
	Assessing Ecosystem Health in Benthic Macroinvertebrate Assemblages of the Athabasca River Main							17-benthos.pdf
Culp et al. 2018	Stem, Tributaries and Peace Athabasca Delta			x				saved in folder
·	Use of pre-industrial baselines to monitor anthropogenicenrichment of metals concentrations in							
	recently depositedsediment of floodplain lakes in the Peace-Athabasca Delta(Alberta, Canada)							
Owca et al 2020				Х	Х			on file
P. Muhammad, C. Duguay, and KK.								
Kang	Monitoring ice break-up on the Mackenzie River using MODIS data	х					Х	https://pdfs.semanticscholar.org/83ea/53dd6ef43e3af1404b6946bd58e0996dc4ce.pdf
Hutchinson Environmental Sciences Ltd.	December of Clause State of the Westershade Aquestic Feeducations had around report							http://might.magaggg.gra/pdf/MADMA. Agustic Faceyistama Backgrayad Banast adf
2014	Peace and Slave State of the Watershed; Aquatic Ecosystems background report				Х		Х	http://mightypeacesow.org/pdf/MPWA_Aquatic_Ecosystems_Background_Report.pdf
Mighty Peace Watershed Alliance	Peace and Slave watershed management plan and associated working group reports that document indigenous and other stakeholder perspectives				x		х	https://www.mightypeacewatershedalliance.org/projects/integrated-watershed- management-plan/
Wighty Fedee Watershed Amarice	Indigenous and other statemonder perspectives				^		^	https://prrd.bc.ca/wp-content/uploads/post/prrd-water-quality-database-and-
Peace River Regional District	Peace River Water Quality Database and Analysis - 2016 (Prepared by GW Solutions Inc)				х			analysis/Water-Quality-Report-Sept-2016.pdf
Peace-Athabasca Delta Ecological	Research and Monitoring Info - does not provide data but does provide contacts and contact info for							http://www.nodomn.com/nocomb.com/
Monitoring Program	various research and monitoring programs re: wildlife, flooding, water quality, hydro-ecology, etc.			×	Х			http://www.pademp.com/research-and-monitoring/
Peel Watersehd Planning Comission	Resource Assessment Report (2008)		x					http://emrlibrary.gov.yk.ca/ylupc/pwpc/resource_assessment_report_sept2008.pdf
			1					
Peel Watershed Planning Comission	Peel Watershed Regional Land Use Plan (2019)		Х					http://emrlibrary.gov.yk.ca/landplanning/peel-watershed-regional-land-use-plan-2019.pdf
Peel Watershed Planning Comission	Ecosystems of the Peel Watershed (2008)		х					http://www.env.gov.yk.ca/publications-maps/documents/peel_watershed_000.pdf
Pisaric 2016	Impact of wildfire on northern stream ecosystems - Final Report - CIMP174 - 2015-16						х	on file
Pulliainen, J., Luojus, K., Derksen, C. et	Patterns and trends of Northern Hemisphere snow mass from 1980 to 2018. Nature 581, 294–298							
<u>al. (2020)</u>	. https://doi.org/10.1038/s41586-020-2258-0	Х	Х	Х	Х	Х	Х	on file
Queenie K.Y. K.Y. Yip, Donald H. H.								
Burn,Frank Seglenieks,Al Pietroniro &Eric D. D. Soulis	Climate Impacts on Hydrological Variables in the Mackenzie River Basin (temperature, precipitation, runoff, evapotranspiration and storage)							https://www.tandfanling.com/dei/full/40_4000/aumi0044_000
	A hydrologic routing model suitable for climate-scale simulations of arctic rivers: application to the	Х	Х	Х	Х	Х	Х	https://www.tandfonline.com/doi/full/10.4296/cwrj2011-899
R.E. Beighley K. Eggert C.J. Wilson J.C. Rowland H. Lee	Mackenzie River Basin	x	×	x	x	x	x	https://onlinelibrary.wiley.com/doi/abs/10.1002/hyp.10398
	Monitoring Database (benthic invertebrates, climate and hydrology, fish populations, sediment quality							
Regional Aquatics Monitoring Program	and water quality)			x				http://www.ramp-alberta.org/ramp/data.aspx
Regional Aquatics Monitoring Program	Annual technical reports (1997-2015)			Х				http://www.ramp-alberta.org/ramp/results/report.aspx
	Community reports and presnetations - summarize fidnings of the technical report for a lamens							
Regional Aquatics Monitoring Program	audience (2002-2009)			Х				http://www.ramp-alberta.org/ramp/results/community.aspx
Robert Leconte, Daniel Peters, Alain Pietroniro and Terry Prowse	Modelling climate change impacts in the Peace and Athabasca Catchment and delta: II—variations in flow and water levels with varying winter severity			x	х			https://onlinelibrary.wiley.com/doi/abs/10.1002/hyp.6427
								https://www.researchgate.net/publication/227827180_The_synoptic_climate_controls_on
	The synoptic climate controls on hydrology in the upper reaches of the Peace River Basin. Part I:							hydrology in the upper reaches of the Peace River Basin Part I Snow accumulati
Romolo et al 2006	Snow accumulation				Х			<u>on</u>
Rosenberg International Forum	Report of the Rosenberg International Forum's Workshop on Transboundary Relations in the Mackenzie River Basin (2013)	x	х	x	х	х	х	https://www.usask.ca/hydrology/papers/Vaux_et_al_2013.pdf
S. POHL, P. MARSH1, and B.R.	Modeling the Impact of Climate Change on Runoff and Annual Water Balance of an Arctic Headwater							
BONSAL	Basin							http://pubs.aina.ucalgary.ca/arctic/Arctic60-2-173.pdf





Source: Author, Agency	Report title, data type, indicators	Mackenzie Great Bear	Peel	Athabasca	Peace	Liard	Great Slave	Link
Sahtu Land use planning comission	Sahtu Land Use Plan 2010	х						https://sahtulanduseplan.org/sites/default/files/background_report_final_july_8- 10_maps.pdf
Sahtu Land use planning comission	Sahtu Land Use Plan 2010 appendices, includes land use maps	х						https://sahtulanduseplan.org/great-bear-lake-watershed-management-plan-appendices
Sahtu Renewable Resources Board, and DFO	Long-term monitoring of Great Bear Lake fisheries and the aquatic ecosystem: research activities accomplished in 2012	х						http://sdw.enr.gov.nt.ca/nwtdp_upload/GBL%20Aquatic%20Ecosystem%20Study%20Summary%20Report%20%20Dec%202012%20final.pdf
Saskatchewan Ministry of Environment	Saskatchewan Digital Land Cover			х			х	https://hub-saskatchewan.opendata.arcgis.com/datasets/saskatchewan-digital-landcover
Saskatchewan Water Security Agency	State of the Watershed Summary Report. March 2010. Saskatchewan Watershed Authority: Science, Information, and Monitoring Stewardship Division. Regina SK.			х				https://www.wsask.ca/About-WSA/Publications/State-of-the-Watershed-Report2010/
Saskatchewan Water Security Agency	Present and Future Water Demand in Selected Saskatchewan River Basins (includes Athabasca)			х				https://www.wsask.ca/Global/Lakes%20and%20Rivers/Provincial%20Forecast/2014/Selected%20Saskatchewan%20River%20Basin%20Water%20Demand%20Study.pdf
Saskatchewan Water Security Agency	Stream Flows and Lake Levels - Lake Athabasca Watershed			x				https://www.wsask.ca/Lakes-and-Rivers/Stream-Flows-and-Lake-Levels/Lake-Athabasca-Watershed-/
Scenarios Network for Artic Planning (SNAP)	Great Bear Lake Climate Change Analysis - and assement of climate change variables in the Great Bear Lake Region, Canada (2011)	х						https://www.snap.uaf.edu/sites/default/files/finalreport.pdf
Schindler, D. W. , A.P. Wolfe, R. Vinebrooke, A. Crowe, J.M. Blais, B. Miskimmin, R. Freed, and B. Perren 2007	The cultural eutrophication of Lac la Biche, Alberta, Canada: a paleoecological study. Canadian Journal of Fisheries and Aquatic Sciences 65 (10): 2211–2223			x				https://cdnsciencepub.com/doi/pdf/10.1139/F08-117
SENES Consultants Limited	2010 NWT Status of The Environment Report	х				х	х	http://sdw.enr.gov.nt.ca/nwtdp_upload/2010%20NWT%20Environmental%20Audit_Status%20of%20the%20Environment%20Repor2.pdf
SENES Consultants Limited	2005 Status of the Environment Report - Freshwater Aquatic Environment	х				х	х	http://sdw.enr.gov.nt.ca/nwtdp_upload/Chapter%203%20- %20Freshwater%20Aquatic%20Environment.pdf
Shawne A. Kokelj	Hydrologic Overview of the North and South Slave Regions						х	https://www.enr.gov.nt.ca/sites/enr/files/hydrologic_overview_of_the_north_and_south_sl_ave_regions_2003.pdf
Shearwater Mapping LTD	Terrestrial Ecosystem Mapping - Peel and Security Rivers		х					http://a100.gov.bc.ca/pub/acat/public/viewReport.do?reportId=1834
Site C Environmental Assessment	potential to find fisheries, invertebrate, and water quality related studies in the Site C EA: BC Hydro. 2013. Site C Clean Energy Project Environmental Impact Statement Executive Summary				х			https://www.sitecproject.com/environmental-assessment/environmental-impact-statement
SLR Environmental Global Solutions	SLR Consulting (Canada) Ltd. 2017. Revised Annotated Bibliography: Literature Review on Biological Monitoring and Biological Indicators in the Hay and Slave Rivers for the Alberta–Northwest Territories Bilateral Water Management Agreement. Submitted to: Government of the Northwest Territories. Environment and Natural Resources.						x	https://www.enr.gov.nt.ca/sites/enr/files/resources/final_annotated_bibliography_for_the_ab-nwt_bilateral_water_management_agreement.pdf
Spyros Beltaos	Comparing the impacts of regulation and climate on ice-jam flooding of the Peace-Athabasca Delta			х	х			https://www.sciencedirect.com/science/article/pii/S0165232X14001396
Spyros Beltaos, Terry Prowse, Barrie Bonsal, Tom Carter, Ross MacKay, Luigi Romolo, Alain Pietroniro and Brenda Toth	Climate Impacts on Ice-jam Floods in a Regulated Northern River (future ice covers would be slightly thinner than they are at present)			x	x			https://link.springer.com/chapter/10.1007/978-3-540-75136-6_18
Spyros Beltaos, Tom Carter	Field studies of ice breakup and jamming in lower Peace River, Canada				х			https://www.sciencedirect.com/science/article/abs/pii/S0165232X08001742
Spyros Beltaos	Numerical modelling of ice-jam flooding on the Peace–Athabasca delta			х	х			https://onlinelibrary.wiley.com/doi/pdf/10.1002/hyp.1355
Spyros Beltaos	Hydro-climatic impacts on the ice cover of the lower Peace River				х			https://onlinelibrary.wiley.com/doi/abs/10.1002/hyp.6911
Stantec	State of Aquatic Knowledge for the Hay River Basin. Prepared for: Government of the Northwest Territories Department of Environment & Natural Resources.						х	on file
Stantec	Status of trends, flow, water quality and suspended sediment quality in the Peel River Watershed (March 2012)		х					on file
Stantec	Status and Trends of Flow, Water Quality and Suspended Sediment Quality in the Peel River Watershed (2014)		х					http://sdw.enr.gov.nt.ca/nwtdp_upload/2012%20Peel_River_Watershed_Stantec%20(2).pdf
Stantec	Peel Regiaonal Land Use Plan - What we heard (2019)		Х			1		http://emrlibrary.gov.yk.ca/landplanning/peel-what-we-heard-feb2019.pdf
Stantec	Stantec. 2016. Tulita Solid Waste Facilities Report. Accessed at http://registry.mvlwb.ca/Documents/S16L3-001/S16L3-001%20-%20Tulita%20Waste%20Facilities%20Report%20-%20Dec%2028_16.pdf	х						http://registry.mvlwb.ca/Documents/S16L3-001/S16L3-001%20- %20Tulita%20Waste%20Facilities%20Report%20-%20Dec%2028_16.pdf





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								http://registry.mvlwb.ca/Documents/MV2014L3-0008/MV2014L3-0008%20- %20Ft%20Resolution%20- %20Sewage%20Treatment%20Facility%20O%20and%20M%20Manual%20-%20Dec17
Stantec 2014	Hamlet of Fort Resolution Sewage Treatment Facility Operations and Maintenance Manual						x	14.pdf
Statistics Canada	Aboriginal Peoples Survey (methods for Findlay et al 2013)							https://www150.statcan.gc.ca/n1/pub/89-637-x/89-637-x2008003-eng.htm
Stephen E.L. Howell *, Laura C. Brown, Kyung-Kuk Kang, Claude R. Duguay	Ice: Variability in ice phenology on Great Bear Lake and Great Slave Lake, Northwest Territories, Canada, from SeaWinds/QuikSCAT: 2000–2006	х					х	https://www.sciencedirect.com/science/article/abs/pii/S0034425708003659
								https://onlinelibrary.wiley.com/doi/abs/10.1002/%28SICI%291099- 1085%28199808/09%2912%3A10/11%3C1589%3A%3AAID-HYP683%3E3.0.CO%3B2
Г. D. Prowse F. M. Conly	Effects of climatic variability and flow regulation on ice-jam flooding of a northern delta			х	х			G
Г. Keenhan, , U. S. Panu, and , V. C. Kartha;	Analysis of freeze-up ice jams on the Peace River near Taylor, British Columbia				х			https://www.nrcresearchpress.com/doi/abs/10.1139/l82-021#.XkHXD2hKiUk
T.D. PROWSE, B.R. BONSAL, C.R. DUGUAY, M.P. LACROIX	River-ice break-up/freeze-up: a review of climatic drivers, historical trends and future predictions			×	x			https://www.cambridge.org/core/journals/annals-of-glaciology/article/riverice-breakupfreezeup-a-review-of-climatic-drivers-historical-trends-and-future-predictions/91AD1DCBF226400671BFBF686D659C45
Taylor, B.R., J. Sanderson and C. Lafontaine 1998	Liard River Environmental Quality Monitoring Program - Summary Report. Water Resources Division, Indian and Northern Affairs Canada, Yellowknife, NWT			^	^	х		on file
TERRY D. PROWSE	Ice jam characteristics, Liard-Mackenzie rivers confluence					х		https://www.nrcresearchpress.com/doi/pdf/10.1139/l86-100
TetraTech 2017	Status and Trends of Water Chemistry and Flow of Tributaries into Great Slave Lake, PRESENTED TO Government of Northwest Territories Department of Environment & Natural Resources						х	on file
Fonn, W., H. Swanson, C. Paszkowski, J. Hanisch, L. Chavarie 2016.	Freshwater Fisheries Ecology - John R. Post, Nicholas Mandrak, Mary Burridge. 2015. Canadian freshwater fishes, fisheries and their management, south of 60°N, Freshwater Fisheries Ecology, 10.1002/9781118394380. pp. 151-165.	х	х				х	on file
Fracking Change	Tracking Change - Report fo the 2016 Community-based research projects in the MRB	x	х	х	х	х	х	http://www.trackingchange.ca/wp-content/uploads/2020/04/TrackingChange-2016- 17Report-CBPintheMRB.pdf
UBC	BC climate data				х	х		https://cfcg.forestry.ubc.ca/projects/climate-data/climatebcwna
Verbyla, D. 2017.	Verbyla, D. 2017. ABoVE: Last Day of Spring Snow, Alaska, USA, and Yukon Territory, Canada, 2000-2016. ORNL DAAC, Oak Ridge, Tennessee, USA. https://doi.org/10.3334/ORNLDAAC/1528	x	х			X	x	https://daac.ornl.gov/ABOVE/guides/Last Day Spring Snow.html
								https://www.cambridge.org/core/services/aop-cambridge-core/content/view/0EA99BCEA9F621092425BEC49633AA3B/S0260305500256516a.pd
Walker and Silis	Snow-cover variations over the Mackenzie River basin, Canada, derived from SSM/I passive-microwave satellite data	x	X	×	x	х	x	snowcover variations over the mackenzie river basin canada derived from ssmi passivemicrowave satellite data.pdf
Wang, S., Zhou, F., Russell, H. A. J., Huang, R., and Shen, Y	Peak river flows in cold regions – Drivers and modelling using GRACE satellite observations and temperature data	^			x			https://www.hydrol-earth-syst-sci-discuss.net/hess-2016-117/
Water Survey of Canada	historical water level and flow data canad-wide	x	Х	v	х	v	х	https://www.canada.ca/en/environment-climate-change/services/water- overview/quantity/monitoring/survey.html
Whitfield, P. H., Kraaijenbrink, P. D. A.,	The Spatial Extent of Hydrological and Landscape Changes across the Mountains and Prairies of the Saskatchewan and Mackenzie Basins			^		,		
Shook, K. R., and Pomeroy, J. W. Noo et al.	Science Meets Traditional Knowledge: Water and Climate in the Sahtu (Great Bear Lake) Region, Northwest Territories, Canada	X	<u> </u>	X	Х	*	Х	https://www.hydrol-earth-syst-sci-discuss.net/hess-2019-671/ http://pubs.aina.ucalgary.ca/arctic/Arctic60-1-37.pdf
World Wildlife Fund Canada	Web-based health and threat assessment of the Peace-Athabasca Watershed (includes subwatersheds)	Х	х	х	х	х	х	http://watershedreports.wwf.ca/#ws-6/by/threat-overall/profile
World Wildlife Fund Canada	Lower Mackenzie Watershed Report	Х	х			х	х	http://awsassets.wwf.ca/downloads/wwf_watershed_report_lower_mackenzie_22062015 updated.pdf
Norld Wildlife Fund Canada	Web-based health and threat assessment of the Lower Mackenzie Watershed (includes subwatersheds)						х	http://watershedreports.wwf.ca/#ws-7/by/threat-overall/profile
World Wildlife Fund Canada	Peace-Athabasca Watershed Report (2015)			x	х			http://awsassets.wwf.ca/downloads/wwf_watershed_report_peaceathabasca_18062015_updated_1.pdf
WSA 2010	Water quality in SK			Х				on file
VSA 2010	Water allocations in SK			х				on file
VSA 2010	water consumption and conservation in SK			Х				on file
NSA 2010	water quantity in SK			х				on file
WWF 2011-Canada Freshwater Program	Rivers at Risk : The status of environmental flows in Canada	x		x			х	http://assets.wwf.ca/downloads/wwf_canadas_riversatrisk_technicalreport.pdf





Mackenzie State		tic	Ecosy	stem	Report	
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		Mackenzie					Great	
Source: Author, Agency	Report title, data type, indicators	Great Bear	Peel	Athabasca	Peace	Liard	Slave	Link
Yang et al	Variability and extreme of Mackenzie River daily discharge during 1973-2011	х	х	х	х	х	х	https://www.sciencedirect.com/science/article/pii/S1040618214006715?via%3Dihub
Yukon Gov	Yukon Snow bulletins - show changes in snow over time from different watersheds		х			х		https://yukon.ca/en/yukon-snow-survey-bulletin-and-water-supply-forecast-march-1-2019
Yukon Gov	Yukon Snow and Water supply bulletins					х		https://yukon.ca/sites/yukon.ca/files/env/env-yukon-snow-survey-bulletin-water-supply-april-2018.pdf
Yukon Government	Snow bulletins: Tracked and summarized three times annually since 2006.		х			х		https://yukon.ca/en/snow-surveys-and-water-supply-forecasts#historical-snow-and-water-supply-data
Yukon Government	Online Yukon water licence resource					х		https://apps.gov.yk.ca/waterline/f?p=127:1:0::NO::: http://yukon.maps.arcgis.com/apps/webappviewer/index.html?id=2365a4c0b8744f34be7f 1451a38493d2
Yukon Research Centre	Yukon Research Metadata Catalogue (inc climate and water)		х			х		http://meteowhitehorse.ca/wxnetworkYT.php
Zhang et al. 2019	Zhang, X., Flato, G., Kirchmeier-Young, M., Vincent, L., Wan, H., Wang, X., Rong, R., Fyfe, J., Li, G., Kharin, V.V. (2019): Changes in Temperature and Precipitation Across Canada; Chapter 4 in Bush, E. and Lemmen, D.S. (Eds.) Canada's Changing Climate Report. Government of Canada, Ottawa, Ontario, pp 112-193.	x	x	x	х	х	x	https://www.nrcan.gc.ca/sites/www.nrcan.gc.ca/files/energy/Climate-change/pdf/CCCR_FULLREPORT-EN-FINAL.pdf
	Central Mackenzie Surface Water and Groundwater Baseline Assessment. Plain Language summary	x					х	on file



